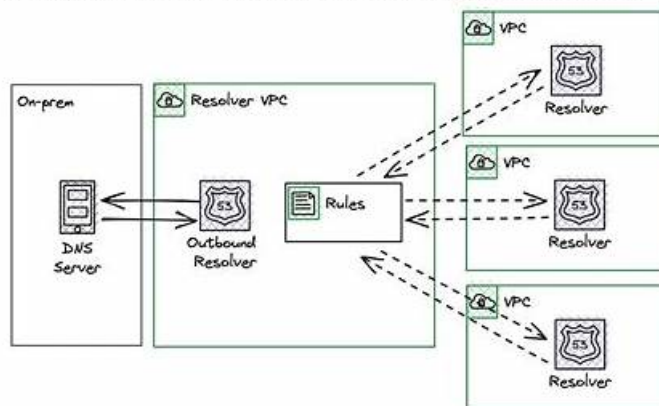# SAA-C03 Exam Actual Questions | Latest SAA-C03 Exam Preparation

✅ **Route53 라우팅 정책**

1. 단순 라우팅 (Simple Routing): 단일 리소스로 라우팅
2. 지리적 위치 라우팅 (Geolocation Routing): 국가별로 라우팅
3. 지리적 근접 라우팅 (Geoproximity Routing): 사용자와 리소스 간 거리를 기반으로 라우팅
4. 다중값 응답 라우팅 (Multi-value Answer Routing): 여러 IP를 응답해 트래픽을 분산시키는 방식으로 라우팅
5. 가중치 기반 라우팅 (Weighted Routing): 설정한 가중치를 기반으로 라우팅
6. 지연시간 기반 라우팅 (Latency-based Routing): 지연시간이 가장 빠른 리전으로 라우팅
7. IP 기반 라우팅 (IP-based Routing): 클라이언트의 IP 주소 범위(CIDR)에 따라 서로 다른 리소스로 라우팅

✅ **Route53 Resolver**

Route53 Resolver는 온프레미스와 AWS VPC 간 도메인 이름 기반 접속을 가능하게 해주는 서비스이다.

1. Route 53 Resolver 아웃바운드 엔드포인트

   | AWS VPC → Route53 Resolver 아웃바운드 엔드포인트 → 온프레미스

   AWS 서비스(ex. EC2)가 온프레미스 내부에서만 사용하는 도메인 주소(ex. `db.corp.local`)로 요청을 보낼 수 있게 해주는 기능이다.

   암기 Tip) AWS를 기준으로 아웃바운드, 인바운드를 구분하면 편하다.

2. Route 53 Resolver 인바운드 엔드포인트

   | 온프레미스 → Route53 Resolver 인바운드 엔드포인트 → AWS VPC

   온프레미스 내부에 있는 서버가 AWS VPC 내부에서만 사용하는 도메인 주소(ex. `app.internal.aws`)로 요청을 보낼 수 있게 해주는 기능이다.

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Amazon SAA-C03 exam is the latest version of the Amazon AWS Certified Solutions Architect - Associate certification exam. It is designed to test the candidate's knowledge and skills in designing and deploying scalable, highly available, and fault-tolerant systems on the AWS platform. The SAA-C03 exam covers a wide range of topics, including AWS architecture, networking, security, storage, database, compute, and AWS services.

Amazon SAA-C03 exam is one of the most sought-after certifications for IT professionals who are interested in cloud computing. AWS Certified Solutions Architect - Associate certification demonstrates a thorough understanding of Amazon Web Services (AWS) and solutions architecture. It is designed to test the candidates' proficiency in designing and deploying scalable, highly available, and fault-tolerant systems on AWS. SAA-C03 Exam is considered to be quite challenging, and requires extensive preparation and hands-on experience with AWS services.

Amazon AWS Certified Solutions Architect - Associate Sample Questions (Q54-Q59):

NEW QUESTION # 54
A company has a web application in the AWS Cloud and wants to collect transaction data in real time. The company wants to prevent data duplication and does not want to manage infrastructure. The company wants to perform additional processing on the data after the data is collected.
Which solution will meet these requirements?

- A. Set up an AWS Step Functions state machine to send incoming transaction data to an AWS Lambda function to remove duplicate data. Launch an Amazon EC2 instance that runs a custom script to process the data.
- B. Configure an Amazon Simple Queue Service (Amazon SQS) FIFO queue Use an AWS Batch job to remove duplicate data from the queue Configure an AWS Lambda function to process the data.
- C. Use Amazon Kinesis Data Streams to send the Incoming transaction data to an AWS Batch job that removes duplicate data. Launch an Amazon EC2 instance that runs a custom script lo process the data.
- D. Configure an Amazon Simple Queue Service (Amazon SOS) FIFO queue. Configure an AWS Lambda function with an event source mapping for the FIFO queue to process the data.

Answer: D

Explanation:
Understanding the Requirement: The company needs to collect transaction data in real time, avoid data duplication, and perform additional processing without managing infrastructure.
Analysis of Options:
SQS FIFO Queue with Lambda: Ensures data is processed in order and prevents duplication. Lambda handles processing without the need to manage servers.
SQS FIFO Queue with AWS Batch: While this ensures no duplicates, it introduces additional complexity and management overhead with AWS Batch.
Kinesis Data Streams with AWS Batch and EC2: Involves more components and infrastructure management, which is against the requirement of not wanting to manage infrastructure.
Step Functions with Lambda and EC2: Involves setting up multiple services and still requires managing EC2 instances, increasing complexity.
Best Solution:
SQS FIFO Queue with Lambda: This combination ensures real-time data processing, prevents duplication, and minimizes infrastructure management, meeting all requirements efficiently.
References:
Amazon SQS FIFO Queues
AWS Lambda and SQS Integration

NEW QUESTION # 55
A company is building a shopping application on AWS. The application offers a catalog that changes once each month and needs to

scale with traffic volume. The company wants the lowest possible latency from the application. Data from each user's shopping carl needs to be highly available. User session data must be available even if the user is disconnected and reconnects.

What should a solutions architect do to ensure that the shopping cart data is preserved at all times?

- A. Configure Amazon OpenSearch Service to cache catalog data from Amazon DynamoDB and shopping cart data from the user's session.
- B. Configure an Application Load Balancer to enable the sticky sessions feature (session affinity) for access to the catalog in Amazon Aurora.
- C. Configure Amazon ElastiCacJie for Redis to cache catalog data from Amazon DynamoDB and shopping carl data from the user's session.
- D. Configure an Amazon EC2 instance with Amazon Elastic Block Store (Amazon EBS) storage for the catalog and shopping cart. Configure automated snapshots.

Answer: C

Explanation:

To ensure that the shopping cart data is preserved at all times, a solutions architect should configure Amazon ElastiCache for Redis to cache catalog data from Amazon DynamoDB and shopping cart data from the user's session. This solution has the following benefits:

It offers the lowest possible latency from the application, as ElastiCache for Redis is a blazing fast in-memory data store that provides sub-millisecond latency to power internet-scale real-time applications1.

It scales with traffic volume, as ElastiCache for Redis supports horizontal scaling by adding more nodes or shards to the cluster, and vertical scaling by changing the node type2.

It is highly available, as ElastiCache for Redis supports replication across multiple Availability Zones and automatic failover in case of a primary node failure3.

It preserves user session data even if the user is disconnected and reconnects, as ElastiCache for Redis can store session data, such as user login information and shopping cart contents, in a persistent and durable manner using snapshots or AOF (append-only file) persistence4.

References:

1: https://aws.amazon.com/elasticache/redis/

2: https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/Scaling.html

3: https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/Replication.html

4: https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/backups.html

NEW QUESTION # 56

[Design Secure Architectures]

A company wants to publish a private website for its on-premises employees. The website consists of several HTML pages and image files. The website must be available only through HTTPS and must be available only to on-premises employees. A solutions architect plans to store the website files in an Amazon S3 bucket.

Which solution will meet these requirements?

- A. Create an Amazon CloudFront distribution that includes an origin access control (OAC) that is configured for the S3 bucket. Use AWS Certificate Manager for SSL. Use AWS WAF with an IP set rule that allows access for the on-premises IP address. Set up an Amazon Route 53 alias record to point to the CloudFront distribution.
- B. Create an Amazon CloudFront distribution that includes an origin access control (OAC) that is configured for the S3 bucket. Create a CloudFront signed URL for the objects in the bucket. Set up an Amazon Route 53 alias record to point to the CloudFront distribution. Provide the signed URL to the on-premises employees to grant the employees access to the website.
- C. Create an S3 bucket policy to deny access when the source IP address is not the public IP address of the on-premises environment Set up an Amazon Route 53 alias record to point to the S3 bucket. Provide the alias record to the on-premises employees to grant the employees access to the website.
- D. Create an S3 access point to provide website access. Attach an access point policy to deny access when the source IP address is not the public IP address of the on-premises environment. Provide the S3 access point alias to the on-premises employees to grant the employees access to the website.

Answer: A

Explanation:

This solution uses CloudFront to serve the website securely over HTTPS using AWS Certificate Manager (ACM) for SSL certificates. Origin Access Control (OAC) ensures that only CloudFront can access the S3 bucket directly. AWS WAF with an IP set

rule restricts access to the website, allowing only the on-premises IP address.Route 53is used to create an alias record pointing to the CloudFront distribution. This setup ensures secure, private access to the website with low administrative overhead.
Option A and B: S3 bucket policies and access points do not provide HTTPS support, nor do they offer the same level of security as CloudFront with WAF.
Option D: Signed URLs are more suitable for temporary, expiring access rather than a permanent solution for on-premises employees.
AWS Reference:
Amazon CloudFront with Origin Access Control

NEW QUESTION # 57
A company wants to build a map of its IT infrastructure to identify and enforce policies on resources that pose security risks. The company's security team must be able to query data in the IT infrastructure map and quickly identify security risks.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Use Amazon Neptune to store the data. Use SPARQL to query the data to identify security risks.
- B. Use Amazon DynamoDB to store the data. Use PartiQL to query the data to identify security risks.
- C. Use Amazon RDS to store the data. Use SQL to query the data to identify security risks.
- D. Use Amazon Redshift to store the data. Use SQL to query the data to identify security risks.

Answer: A

Explanation:
Understanding the Requirement: The company needs to map its IT infrastructure to identify and enforce security policies, with the ability to quickly query and identify security risks.
Analysis of Options:
Amazon RDS: While suitable for relational data, it is not optimized for handling complex relationships and querying those relationships, which is essential for an IT infrastructure map.
Amazon Neptune: A graph database service designed for handling highly connected data. It uses SPARQL to query graph data efficiently, making it ideal for mapping IT infrastructure and identifying relationships that pose security risks.
Amazon Redshift: A data warehouse solution optimized for complex queries on large datasets but not specifically for graph data.
Amazon DynamoDB: A NoSQL database that uses PartiQL for querying, but it is not optimized for complex relationships in graph data.
Best Option for Mapping and Querying IT Infrastructure:
Amazon Neptune provides the most suitable solution with the least operational overhead. It is purpose-built for graph data and enables efficient querying of complex relationships to identify security risks.
Reference:
Amazon Neptune
Querying with SPARQL

NEW QUESTION # 58
[Design Resilient Architectures]
A company maintains a searchable repository of items on its website. The data is stored in an Amazon RDS for MySQL database table that contains more than 10 million rows The database has 2 TB of General Purpose SSD storage There are millions of updates against this data every day through the company's website The company has noticed that some insert operations are taking 10 seconds or longer The company has determined that the database storage performance is the problem Which solution addresses this performance issue?

- A. Enable Multi-AZ RDS read replicas with MySQL native asynchronous replication.
- B. Change the DB instance to a memory optimized instance class
- C. Change the storage type to Provisioned IOPS SSD
- D. Change the DB instance to a burstable performance instance class

Answer: C

Explanation:
https://aws.amazon.com/ebs/features/
"Provisioned IOPS volumes are backed by solid-state drives (SSDs) and are the highest performance EBS volumes designed for your critical, I/O intensive database applications.
These volumes are ideal for both IOPS-intensive and throughput-intensive workloads that require extremely low latency."

https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Storage.html

NEW QUESTION # 59

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